



PATENT APPLICATION
IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of

Docket No: Q77445

Sang Yup LEE, et al.

Appln. No.: 10/662,517

Confirmation No.: 2292

Group Art Unit: 1633

Filed: September 16, 2003

Examiner: To Be Assigned

For: PROCESS FOR PREPARING SERINE-RICH PROTEIN EMPLOYING
CYSTEINE SYNTHASE (CYSK) GENE

**INFORMATION DISCLOSURE STATEMENT
UNDER 37 C.F.R. §§ 1.97 and 1.98**

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

In accordance with the duty of disclosure under 37 C.F.R. § 1.56, Applicants hereby notify the U.S. Patent and Trademark Office of the documents which are listed on the attached PTO/SB/08 A & B (modified) form and/or listed herein and which the Examiner may deem material to patentability of the claims of the above-identified application.

Weickert *et al.*, "Optimization of heterologous protein production in *Escherichia coli*," Current Opinion in Biotechnology, Vol. 7, (1996), pp. 494-499;

Hochstrasser, *et al.*, "Method for Increasing the Resolution of Two-Dimensional Protein Electrophoresis," Analytical Biochemistry, Vol. 173, (1988), pp. 424-435;

Han *et al.*, "Proteome Analysis of Metabolically Engineered *Escherichia coli* Producing Poly(3-Hydroxybutyrate)," Journal of Bacteriology, Vol. 183, No. 1, (January 2001), pp. 301-308;

INFORMATION DISCLOSURE STATEMENT

U.S. Appln. No. 10/662,517

Park *et al.*, "Metabolic engineering of *Escherichia coli* for the production of medium-chain-length polyhydroxyalkanoates rich in specific monomers," FEMS Microbiology Letters 214, (2002), pp. 217-222;

Peekhaus *et al.*, "Positive and Negative Transcriptional Regulation of the *Escherichia coli* Gluconate Regulon Gene *gntT* by GntR and the Cyclic AMP (cAMP)-cAMP Receptor Protein Complex," Journal of Bacteriology, Vol. 180, No. 7, (April 1998), pp. 1777-1785;

Jeong *et al.*, "High-Level Production of Human Leptin by Fed-Batch Cultivation of Recombinant *Escherichia coli* and Its Purification," Applied and Environmental Microbiology, Vol. 65, No. 7, (July 1999), pp. 3027-3032; and

Jeong *et al.*, "Secretory Production of Human Granulocyte Colony-Stimulating Factor in *Escherichia coli*," Protein Expression and Purification, Vol. 23, (2001), pp. 311-318.

One copy of each of the listed documents is submitted herewith.

The present Information Disclosure Statement is being filed: (1) No later than three months from the application's filing date for an application other than a continued prosecution application (CPA) under §1.53(d); (2) Before the mailing date of the first Office Action on the merits (whichever is later); or (3) Before the mailing date of the first Office Action after filing a request for continued examination (RCE) under §1.114, and therefore, no Statement under 37 C.F.R. § 1.97(e) or fee under 37 C.F.R. § 1.17(p) is required.

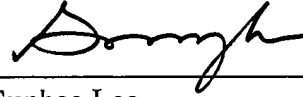
The submission of the listed documents is not intended as an admission that any such document constitutes prior art against the claims of the present application.

Applicants do not waive any right to take any action that would be appropriate to antedate or otherwise remove any listed document as a competent reference against the claims of the present application.

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The USPTO is directed and authorized to charge all required fees, except for the Issue Fee and the Publication Fee, to Deposit Account No. 19-4880. Please also credit any overpayments to said Deposit Account. A duplicate copy of this paper is attached.

Respectfully submitted,



Sunhee Lee
Registration No. 53,892

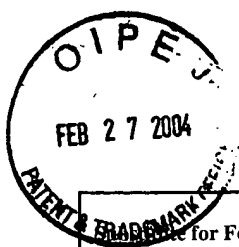
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WASHINGTON OFFICE

23373

CUSTOMER NUMBER

Date: February 27, 2004



INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)				<i>Complete if Known</i>	
				Application Number	10/662,517
				Confirmation Number	2292
				Filing Date	September 15, 2003
				First Named Inventor	Sang Yup LEE
				Art Unit	1633
				Examiner Name	Not Assigned
Sheet	1	of	1	Attorney Docket Number	Q77445

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Document Number		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document
		Number	Kind Code ² known (n)		

FOREIGN PATENT DOCUMENTS							
Examiner Initials*	Cite No. ¹	Foreign Patent Document			Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Translation ⁶
		Country Code ³	Number ⁴	Kind Code ⁵ (if known)			

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city, and/or country where published.	Translation ⁶
		Weickert <i>et al.</i> , "Optimization of heterologous protein production in <i>Escherichia coli</i> ," <u>Current Opinion in Biotechnology</u> , Vol. 7, (1996), pp. 494-499.	
		Hochstrasser, <i>et al.</i> , "Method for Increasing the Resolution of Two-Dimensional Protein Electrophoresis," <u>Analytical Biochemistry</u> , Vol. 173, (1988), pp. 424-435.	
		Han <i>et al.</i> , "Proteome Analysis of Metabolically Engineered <i>Escherichia coli</i> Producing Poly(3-Hydroxybutyrate)," <u>Journal of Bacteriology</u> , Vol. 183, No. 1, pp. 301-308.	
		Park <i>et al.</i> , "Metabolic engineering of <i>Escherichia coli</i> for the production of medium-chain-length polyhydroxyalkanoates rich in specific monomers," <u>FEMS Microbiology Letters</u> 214, (2002), pp. 217-222.	
		Peekhaus <i>et al.</i> , "Positive and Negative Transcriptional Regulation of the <i>Escherichia coli</i> Gluconate Regulon Gene <i>gntT</i> by GntR and the Cyclic AMP (cAMP)-cAMP Receptor Protein Complex," <u>Journal of Bacteriology</u> , Vol. 180, No. 7, (April 1998), pp. 1777-1785.	
		Jeong <i>et al.</i> , "High-Level Production of Human Leptin by Fed-Batch Cultivation of Recombinant <i>Escherichia coli</i> and Its Purification," <u>Applied and Environmental Microbiology</u> , Vol. 65, No. 7, (July 1999), pp. 3027-3032.	
		Jeong <i>et al.</i> , "Secretory Production of Human Granulocyte Colony-Stimulating Factor in <i>Escherichia coli</i> ," <u>Protein Expression and Purification</u> , Vol. 23, (2001), pp. 311-318.	

Examiner Signature		Date Considered	
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*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Applicant's unique citation designation number (optional). ² See Kind Codes of USPTO Patent Documents at www.uspto.gov, MPEP 901.04 or in the comment box of this document. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST. 3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to indicate here if English language Translation is attached.